JOURNAL OF PHYSICAL AND CHEMICAL REFERENCE DATA

Volume 34, No. 3, 2005

Information for Contributorsii
Evaluated Kinetic Data for Combustion Modelling: Supplement II
This compilation updates and expands two previous evaluations of kinetic data on elementary, homogeneous, gas phase reactions of neutral species involved in combustion systems. Individual data sheets are presented for most reactions but the kinetic data for reactions of C_2 , C , ethyl, i -propyl, t -butyl, and allyl radicals are summarized in tables. Each data sheet sets out relevant thermodynamic data, experimental kinetic data, references, recommended rate parameters with their error limits, and a brief discussion of the reasons for their selection.
IUPAC-NIST Solubility Data Series. 81. Hydrocarbons with Water and Seawater-Revised and Updated. Part 5. C ₇ Hydrocarbons with Water and Heavy Water
The mutual solubility and related liquid-liquid equilibria of C_7 hydrocarbons with water and heavy water are exhaustively and critically reviewed. Reports of experimental determination of solubility in 23 chemically distinct binary systems that appeared in the primary literature prior to the end of 2002 are compiled. For nine systems sufficient data are available to allow critical evaluation. A new method based on the evaluation of the all experimental data for a given homologous series of aliphatic and aromatic hydrocarbons was used.
IUPAC-NIST Solubility Data Series. 81. Hydrocarbons with Water and Seawater-Revised and Updated. Part 6. C ₈ H ₈ -C ₈ H ₁₀ Hydrocarbons with Water
The mutual solubility and related liquid-liquid equilibria of $C_8H_8-C_8H_{10}$ hydrocarbons with water are exhaustively and critically reviewed. Reports of experimental determinations of solubility in five chemically distinct binary systems that appeared in the primary literature prior to the end of 2002 are compiled. For all the systems sufficient data are available to allow critical evaluation. A new method based on the evaluation of the all experimental data for a given homologous series of aliphatic and aromatic hydrocarbons was used.
Erratum: "The Dissociation Enthalpies of Terminal (N-O) Bonds in Organic Compounds" [J. Phys. Chem. Ref. Data 34, 553 (2005)]
JPCRD Supplements & Monographs